

**Amendments to the Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claims 1-9 (canceled).

Claim 10 (currently amended): A web tensioning device which comprises:

a base;

an angular position sensor;

a dancer arm for engaging the web to be tensioned, having a free end portion with a dancer rotatably mounted thereon and a fixed end portion pivotably mounted to the base so as to coact with the angular position sensor and indicate relative angular displacement of the dancer arm as a web in contact with the dancer is maintained in tension;

a servo motor operably associated with the dancer arm for pivotally positioning the dancer arm by application of torque in response to a control output signal; and

a controller for generating the control output signal in response to acceleration movement of the dancer arm due to changes in web tension as detected by the angular position sensor;

the applied torque being substantially the same as force of the dancer arm acceleration.

11 (original): The web tensioning device in accordance with claim 10 wherein the angular position sensor is an encoder operably associated with the fixed end portion of the dancer arm and senses relative angular displacement of the dancer arm.

12 (original): The web tensioning device in accordance with claim 11 wherein the encoder is an incremental rotary optical encoder.

13 (original): The web tensioning device in accordance with claim 10 wherein the servo motor is an electric motor.

14 (currently amended): The web tensioning device in accordance with claim 13 wherein ~~herein~~ the servo motor is a limited angle electric motor operably associated with the dancer arm for pivoting the dancer arm by application of torque in response to the control output signal ~~a control signal~~.